

BRUHAT BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

EMB

Name of Work: Improvements to Roads & drains in Krishne Gowda Layout & Nrupatunga Road in ward
No 15 T.Dasarahalli

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Pre-measurment								
1	KSRRB M200-Dismtling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonary, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismanlet material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specification Lime/Cement concrete I. By Manual Means C. Prestressed /Reinforced cement concrete Grade M-20 & above (P-139, lt 18.19) PWD SR 2018-19								
	Nrupatunga road western side								
	dismantling of side wall								
	culvert near church	Cum	1	2*7.00	0.20	0.75	2.10		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*27.00	0.15	0.75	6.08		
	culvert at # 8 nisarga nilaya		1	2*6.50	0.20	0.75	1.95		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*22.00	0.15	0.75	4.95		
	culvert at cross road		1	2*6.50	0.20	0.75	1.95		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*15.40	0.15	0.75	3.47		
	dismantling of bottom								
	culvert near church		1	7.00	1.20	0.15	1.26		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	27.00	1.00	0.15	4.05		
	culvert at # 8 nisarga nilaya		1	6.50	1.20	0.15	1.17		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	22.00	1.00	0.15	3.30		
	culvert at cross road		1	6.50	1.20	0.15	1.17		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	15.40	1.00	0.15	2.31		
							146.25	1572.00	229905.00
	Pre-measurment								
2	KSRRB M2100-19 Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @ 0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 (P.222/1.27.18) PWD - SR 2018-19								

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	culvert near church	cum	1	7.00	1.20	0.20	1.68		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	27.00	1.00	0.15	4.05		
	culvert at # 8 nisarga nilaya		1	6.50	1.20	0.20	1.56		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	22.00	1.05	0.15	3.47		
	drain		1	6.50	1.20	0.20	1.56		
	culvert at cross road		1	30.00	1.00	0.15	4.50		
	drain		1	30.00	1.00	0.20	6.00		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	30.00	1.00	0.15	4.50		
	drain		1	30.00	1.10	0.15	4.95		
	drain		1	15.40	1.20	0.20	3.70		
							58.46	5060.00	295813.00
	Pre-measurment								29580.00
3	KSRRB M2200-6 Supplying, fitting and placing TMT bar Fe 500 reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specifications MORTH Specification No.1600 & 2200 [P. no.229 · I. no.28.8.2]PWD · SR 2018-19)								
	Description of work	Tonne							
		Dia	Length	Nos	8mm	10mm			
	For RCC Drain								
	church to # 8 nisarga nilaya								
	Main steel	10mm	2.70	380		1026.00			
	Dist steel	8mm	57.00	10	570.00				
	# 8 nisarga nilaya to crs road								
	Main steel	10mm	2.70	547		1476.90			
	Dist steel	8mm	82.00	10	820.00				
	crs road to NH service road								
	Main steel	10mm	2.70	1303		3518.10			
	Dist steel	8mm	195.40	12	2344.80				
				Mtr	3734.80	6021.00			
		8mm	3734.80	0.39	Kgs	1456.57			
		10mm	6021.00	0.62	Kgs	3733.02			
					Kgs	5189.59			
					M.T	5.19			
	Description of work	Dia	Length	Nos	10mm	12mm			
	culvert mat								
	culvert @ near church								
	Main steel	12mm	7.00	10		70.00			
	Dist steel	10mm	1.50	40	60.00				
	culvert @ # 8 nisarga nilaya								
	Main steel	12mm	6.50	10		65.00			
	Dist steel	10mm	1.50	40	60.00				
	culvert @ crs road								
	Main steel	12mm	6.50	10		65.00			
	Dist steel	10mm	1.50	40	60.00				
	culvert wall								
	culvert @ near church								
	Main steel	12mm	4*2	40		320.00			
	Dist steel	10mm	7.00	11	77.00				
	culvert @ # 8 nisarga nilaya								
	Main steel	12mm	4*2	40		320.00			
	Dist steel	10mm	6.50	10	65.00				

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	culvert @ crs road								
	Main steel	12mm	4*2	40		320.00			
	Dist steel	10mm	6.50	10	65.00				
				Mtr	322.00	840.00			
	10mm	322.00	0.62	Kgs	199.64				
	12mm	840.00	0.89	Kgs	747.60				
				Kgs	947.24				
				Kgs	6136.83				
				M.T	6.14				
				Kgs	6136.83				
				M.T	6.14				
						6.14	67510.00	414298.00	
	Pre-measurment								
4	Removing & Refixing stone slabs of drains and pointing (PWD SR 2018-19, Page No.27, Item No. 5.33)								
	nrapatunga road eastern side	Sqm	1	13*30.00	0.90		351.00		
			1	5.00	0.90		4.50		
							355.50	103.00	36617.00
	Pre-measurment								
5	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (P.143/I.19.1 PWD -SR 2018-19)								
	Desilting of drain								
	3rd main KG layout l/s	cum	1	30.00	0.60	0.30	5.40		
			1	20.00	0.60	0.25	3.00		
	3rd main KG layout r/s		1	30.00	0.60	0.30	5.40		
			1	20.00	0.55	0.30	3.30		
	2nd main KG layout l/s		1	3*30.00	0.60	0.25	13.50		
			1	15.00	0.60	0.25	2.25		
	2nd main KG layout r/s		1	3*30.00	0.60	0.25	13.50		
			1	15.00	0.60	0.30	2.70		
	1st crs KG layout l/s		1	30.00	0.60	0.25	4.50		
			1	27.00	0.60	0.30	4.86		
	1st crs KG layout r/s		1	30.00	0.55	0.30	4.95		
			1	27.00	0.60	0.25	4.05		
	surya bekary road l/s		1	4*30.00	0.60	0.25	18.00		
			1	11.00	0.60	0.15	0.99		
	surya bekary road r/s		1	4*30.00	0.60	0.30	21.60		
			1	11.00	0.60	0.25	1.65		
	maheshwari nagar 1st crs l/s		1	4*30.00	0.60	0.30	21.60		
			1	22.00	0.55	0.30	3.63		
	maheshwari nagar 1st crs r/s		1	4*30.00	0.60	0.30	21.60		
			1	22.00	0.60	0.25	3.30		
	maheshwari nagar 2nd crs l/s		1	4*30.00	0.60	0.20	14.40		
			1	21.00	0.60	0.20	2.52		
	maheshwari nagar 2nd crs r/s		1	4*30.00	0.60	0.20	14.40		
			1	21.00	0.60	0.20	2.52		
	maheshwari nagar 1st A crs		1	30.00	0.55	0.20	3.30		
			1	12.00	0.60	0.20	1.44		
	maheshwari nagar 1st A crs		1	30.00	0.60	0.20	3.60		
			1	12.00	0.60	0.20	1.44		
							203.40	128.00	26035.00
	Pre-measurment								
6	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200.(PWD SR 2018-19 P.no-271, It No 37.59.20)								

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	drain bottom concrete	cum	1	7.00	1.20	0.10	0.84		
	culvert near church		1	30.00	1.00	0.10	3.00		
	drain		1	27.00	1.00	0.10	2.70		
	drain		1	6.50	1.20	0.10	0.78		
	culvert at # 8 nisarga nilaya		1	30.00	1.00	0.10	3.00		
	drain		1	30.00	1.00	0.10	3.00		
	drain		1	22.00	1.00	0.10	2.20		
	drain		1	6.50	1.20	0.10	0.78		
	culvert at cross road		1	30.00	1.05	0.10	3.15		
	drain		1	30.00	1.00	0.10	3.00		
	drain		1	30.00	1.00	0.10	3.00		
	drain		1	30.00	1.00	0.10	3.00		
	drain		1	30.00	1.00	0.10	3.00		
	drain		1	30.00	1.00	0.10	3.00		
	drain		1	15.40	1.20	0.10	1.85		
	drain wall concrete		1	2*7.00	0.15	0.75	1.58		
	culvert near church		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*27.00	0.15	0.75	6.08		
	drain		1	2*6.50	0.15	0.75	1.46		
	culvert at # 8 nisarga nilaya		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*22.00	0.15	0.75	4.95		
	drain		1	2*22.00	0.15	0.75	4.95		
	culvert at cross road		1	2*6.50	0.15	0.75	1.46		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*30.00	0.15	0.75	6.75		
	drain		1	2*15.30	0.15	0.75	3.44		
							122.77	6600.00	810252.00
	Pre-measurment								810282 =
	KSRRB 500-3. Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100 m. sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM complete as per specifications (P.158/I.21.3 PWD -SR 2018-19).								
	3rd main KG layout	sqm	2	30.00	1.00		60.00		
			2	20.00	1.00		40.00		
	2nd main KG layout		2	3*30.00	1.00		180.00		
			2	15.00	1.00		30.00		
	1st crs KG layout		2	30.00	1.00		60.00		
			2	27.00	1.00		54.00		
	surya bekary road		2	4*30.00	1.00		240.00		
			2	11.00	1.00		22.00		
	maheshwari nagar 1st crs		2	4*30.00	1.00		240.00		
			2	22.00	1.00		44.00		
	maheshwari nagar 2nd crs		2	4*30.00	1.00		240.00		
			2	21.00	1.05		44.10		
	maheshwari nagar 1st A crs		2	30.00	1.20		72.00		
			2	12.00	1.20		28.80		
							1354.90	124.00	168008.00

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
Pre-measurment									
8	Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. (PWD SR 2018-19, P.No.155, I No.20.18)								
	3rd main KG layout	cum	2	30.00	1.00	0.15	9.00		
			2	20.00	1.00	0.15	6.00		
	2nd main KG layout		2	3*30.00	1.00	0.15	27.00		
			2	15.00	1.00	0.15	4.50		
	1st crs KG layout		2	30.00	1.00	0.15	9.00		
			2	27.00	1.00	0.15	8.10		
	surya bekary road		2	4*30.00	1.00	0.15	36.00		
			2	11.00	1.00	0.15	3.30		
	maheshwari nagar 1st crs		2	4*30.00	1.00	0.15	36.00		
			2	22.00	1.00	0.15	6.60		
	maheshwari nagar 2nd crs		2	4*30.00	1.00	0.15	36.00		
			2	21.00	1.05	0.15	6.62		
	maheshwari nagar 1st A crs		2	30.00	1.20	0.15	10.80		
			2	12.00	1.20	0.15	4.32		
							203.24	1868.00	379643.00
Pre-measurment									
9	KSRRB M500-6 Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means. As per MORTH specification No. 502 (PWDSR 2018-19, P.No.158, I No.21.6)								379652 = 0
	3rd main KG layout	sqm	2	30.00	1.00		60.00		
			2	20.00	1.00		40.00		
	2nd main KG layout		2	3*30.00	1.00		180.00		
			2	15.00	1.00		30.00		
	1st crs KG layout		2	30.00	1.00		60.00		
			2	27.00	1.00		54.00		
	surya bekary road		2	4*30.00	1.00		240.00		
			2	11.00	1.00		22.00		
	maheshwari nagar 1st crs		2	4*30.00	1.00		240.00		
			2	22.00	1.00		44.00		
	maheshwari nagar 2nd crs		2	4*30.00	1.00		240.00		
			2	21.00	1.05		44.10		
	maheshwari nagar 1st A crs		2	30.00	1.20		72.00		
			2	12.00	1.20		28.80		
							1354.90	25.00	33873.00
Pre-measurment									
10	KSRRB 500-16. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, Premixed with VG 30 grade bituminous binder & transporting the hot mix to work site laying to the required grade, level and alignment, rolling with smoothwheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specification. Clause 505 of MORTH V revision using 40/60 TPH Capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm) with 4.5% VG-30 Bitumen (PWDSR 2018-19, P.No.160, I No.21.17.6)								
	3rd main KG layout	sqm	2	30.00	1.00	0.05	3.00		
			2	20.00	1.00	0.05	2.00		
	2nd main KG layout		2	3*30.00	1.00	0.05	9.00		
			2	15.00	1.00	0.05	1.50		
	1st crs KG layout		2	30.00	1.00	0.05	3.00		
			2	27.00	1.00	0.05	2.70		
	surya bekary road		2	4*30.00	1.00	0.05	12.00		
			2	11.00	1.00	0.05	1.10		
	maheshwari nagar 1st crs		2	4*30.00	1.00	0.05	12.00		
			2	22.00	1.00	0.05	2.20		

Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
maheshwari nagar 2nd crs		2	4*30.00	1.00	0.05	12.00		
		2	21.00	1.05	0.05	2.21		
maheshwari nagar 1st A crs		2	30.00	1.20	0.05	3.60		
		2	12.00	1.20	0.05	1.44		
Pre-measurment						67.75	5345.00	362097.00
KSRRB M500-10 Tack Coat: Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom, complete as per specifications. MORTH Specification No. 503 of MORTH V revision (PWD SR 2018-19, Page No.159, Item No. 21.10)								
3rd main KG layout	sqm	1	30.00	4.70+4.80/2		142.50		
		1	20.00	4.80+4.60/2		94.00		
2nd main KG layout		1	3*30.00	5.00+5.10/2		454.50		
		1	15.00	5.10+5.00/2		75.75		
1st crs KG layout		1	30.00	4.50+4.50/2		135.00		
		1	27.00	4.70+4.80/2		128.25		
surya bekary road		1	4*30.00	5.00+4.90/2		594.00		
		1	11.00	4.90+4.80/2		53.35		
maheshwari nagar 1st crs		1	4*30.00	4.30+4.20/2		510.00		
		1	22.00	4.20+4.20/2		92.40		
maheshwari nagar 2nd crs		1	4*30.00	4.30+4.20/2		510.00		
		1	21.00	4.20+4.20/2		88.20		
maheshwari nagar 1st A crs		1	30.00	4.00+4.10/2		121.50		
		1	12.00	4.10+4.00/2		48.60		
Detailed measurment						3048.05	10.00	30481.00
Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V Revision as per IRC SP-53-2015 using 40-60 TPH capacity HMP with mechanical paver grading II Cum (30-45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and								
3rd main KG layout	cum	1	30.00	4.70+4.80/2	0.04	5.70		
		1	20.00	4.80+4.60/2	0.04	3.76		
2nd main KG layout		1	3*30.00	5.00+5.10/2	0.04	18.18		
		1	15.00	5.10+5.00/2	0.04	3.03		
1st crs KG layout		1	30.00	4.50+4.50/2	0.04	5.40		
		1	27.00	4.70+4.80/2	0.04	5.13		
surya bekary road		1	4*30.00	5.00+4.90/2	0.04	23.76		
		1	11.00	4.90+4.80/2	0.04	2.13		
maheshwari nagar 1st crs		1	4*30.00	4.30+4.20/2	0.04	20.40		
		1	22.00	4.20+4.20/2	0.04	3.70		
maheshwari nagar 2nd crs		1	4*30.00	4.30+4.20/2	0.04	20.40		
		1	21.00	4.20+4.20/2	0.04	3.53		
maheshwari nagar 1st A crs		1	30.00	4.00+4.10/2	0.04	4.86		
		1	12.00	4.10+4.00/2	0.04	1.94		
sujatha tent down side dead end		1	2*30.00	5.00+4.90/2	0.04	11.88		
		1	10.00	4.90+5.00/2	0.04	1.98		
people tree hospital beside		1	2*30.00	4.60+4.80/2	0.04	11.28		
		1	19.00	4.80+4.60/2	0.04	3.57		
3rd main kg layout		1	3*30.00	5.00+5.10/2	0.04	16.38		
		1	16.00	5.10+5.00/2	0.04	2.91		
						169.93	6315.00	1073083.00

